

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. - 2. (Canceled)

3. (Currently amended) A method for adjusting a setting of a gain control loop of a receiver with respect to a selected timeslot of time frame format, the method comprising:

processing a first plurality of samples of a data signal received in the selected timeslot of a current time frame with an initial gain factor;

determining, from ~~said~~ the first plurality of samples, a first number of ~~said~~ the first samples which exceed a saturation criteria;

comparing the first number to a threshold number and erasing the first plurality of samples if on a condition that the first number is greater than the threshold number;

processing a second plurality of samples of the data signal received in the selected timeslot of the current time frame that are processed with a gain factor adjusted based, at least in part, upon ~~said~~ the first number;

determining, from ~~said~~ the second plurality of samples, a second number of ~~said~~ the second samples which exceed the saturation criteria;

comparing the second number to the threshold number and erasing the second plurality of samples ~~if~~ on a condition that the second number is greater than the threshold number; and

processing a third plurality of samples of the data signal received in the selected timeslot of the current time frame that are processed with a gain factor adjusted based, at least in part, upon ~~said~~ the second number.

4. (Currently amended) The method of claim 3 processing a plurality of samples of the data signal received in the selected timeslot of the current time frame between processing ~~said~~ the first plurality of samples and ~~said~~ the second plurality of samples and processing a plurality of samples of the data signal received in the selected timeslot of the current time frame between processing ~~said~~ the second plurality of samples and ~~said~~ the third plurality of samples.

5. (Canceled)

6. (Previously presented) The method of claim 3, further comprising making gain factor adjustments using a power correction factor.

7. (Currently amended) The method of claim 6, wherein ~~said~~ the power correction factor depends, at least in part, upon a determined number of samples exceeding the saturation criteria.

8. (Currently amended) The method of claim 7, further comprising a lookup table, which receives the determined number and outputs ~~said~~ the power correction factor.

9. - 11. (Canceled)

12. (Currently amended) A receiver comprising:
a gain control loop configured to process samples of a data signal received with respect to a selected timeslot of a time frame including;

a gain control for applying a gain factor to samples of the data signal;

a saturation detection circuit configured to process samples from the gain control in selected groups to determine a number of samples within a group which exceed a saturation criteria;

a gain control adjustment circuit operatively associated with ~~said~~ the gain control and ~~said~~ the saturation detection circuit to adjust the gain factor

applied by the gain control based in part on group saturation numbers determined by the saturation detection circuit while processing the data signal received with respect to the selected timeslot of time frame such that:

an initial gain factor is applied to a first group of samples of the data signal received in the selected timeslot for which a first group saturation number is determined by the saturation detection circuit,

a gain factor adjusted based in part on the first group saturation number is applied to a second group of samples of the data signal received in the selected timeslot for which a second group saturation number is determined by the saturation detection circuit, and

a gain factor adjusted based in part on the second group saturation number is applied to a third group of samples of the data signal received in the selected timeslot; and

an erase circuit to compare the number of samples within a group of samples which exceed the saturation criteria to a threshold number and erase the group of samples if on a condition that the number of samples within the group which exceed the saturation criteria is greater than the threshold number.

13. (Currently amended) The receiver of claim 12 wherein the gain control loop is configured to process a plurality of samples of the data signal received in the selected timeslot between processing ~~said~~ the first group of samples and ~~said~~ the second group of samples and to process a plurality of samples of the data signal received in the selected timeslot between processing ~~said~~ the second group of samples and ~~said~~ the third group of samples.

14. (Previously presented) The receiver of claim 12 wherein the gain control adjustment circuit is configured to make gain factor adjustments using a power correction factor.

15. (Previously presented) The receiver of claim 12 wherein the gain control adjustment circuit is configured to make gain factor adjustments using a power correction factor that is based in part upon a group saturation number determined by the saturation detection circuit.

16. (Previously presented) The receiver of claim 12 wherein the gain control adjustment circuit is configured to make gain factor adjustments using a power correction factor that is based in part upon a group saturation number

determined by the saturation detection circuit by using a lookup table to receive the determined number and to output the power correction factor.

17. (Canceled)

18. (Previously presented) A wireless transmit receive unit (WTRU) comprising the receiver of claim 12.

19. (Previously presented) A base station comprising the receiver of claim 12.